

INTERNATIONAL COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/ CU 01/ 00003	International filing date (day/month/year) 07/06/2001	(Earliest) Priority Date (day/month/year) 07/06/2000
Applicant CENTRO NACIONAL DE INVESTIGACIONES CIENTIFICAS		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.
☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

- ☐ as suggested by the applicant.
- ☒ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.
- 1 ☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PC 01/00003

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N27/447 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N C12Q B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EP0-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 745 844 A (CENT NAC INVESTIG SCIENT) 4 December 1996 (1996-12-04) the whole document	1,19,21, 22,34,37
P,A	ES 2 147 174 A (THE BOARD OF TRUSTEES OF THE LELAND STRANFORD JUNIOR UNIVERSITY) 1 September 2000 (2000-09-01) the whole document	1-5,19, 22-26, 34,39,43
A	US 5 084 157 A (CLARK STEVEN M ET AL) 28 January 1992 (1992-01-28) the whole document	1-5,19, 22-26, 34,39,43



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

26 September 2001

Date of mailing of the international search report

23 10 2001

Name and mailing address of the ISA

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Fax: (+31-70) 340-3016

Authorized officer

Antonio Cardenas

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/00003

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 740 283 A (LAAS WILLIAM A ET AL) 26 April 1988 (1988-04-26) the whole document ---	1,6,7, 9-22,27, 28,34, 37, 40-42,44
P,A	WO 01 07150 A (KAHL ET AL) 1 February 2001 (2001-02-01) page 2, line 27 - line 31; claims ---	1,22,34
A	US 6 063 250 A (BECKER ROBERT G) 16 May 2000 (2000-05-16) figures ---	1,22
A	GB 2 249 395 A (BIO RAD LABORATORIES) 6 May 1992 (1992-05-06) page 5, line 14 -page 9, line 32 -----	1,22,34, 43

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 01/00003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0745844	A	04-12-1996	EP 0745844 A2	04-12-1996
ES 2147174	A		NONE	
US 5084157	A	28-01-1992	NONE	
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PCT/ISU 01/000003

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A	US 6 063 250 A (BECKER ROBERT G) 16 May 2000 (2000-05-16) figures ---	1,22
A	GB 2 249 395 A (BIO RAD LABORATORIES) 6 May 1992 (1992-05-06) page 5, line 14 -page 9, line 32 -----	1,22,34, 43

A. CLASIFICACION DE LA INVENCIÓN
CIP 7 G01N27/447 C12 38

Según la clasificación internacional de patentes (CIP) o según la clasificación nacional y la CIP

B. SECTORES COMPRENDIDOS POR LA BUSQUEDA

Documentación mínima consultada (sistema de clasificación seguido de los símbolos de clasificación)

CIP 7 G01N C12Q B01D

Otra documentación consultada además de la documentación mínima en la medida en que tales documentos forman parte de los sectores comprendidos por la búsqueda

Base de datos electrónica consultada durante la búsqueda internacional (nombre de la base de datos, y cuando sea aplicable, términos de búsqueda utilizados)

C. DOCUMENTOS CONSIDERADOS PERTINENTES

Categoría*	Identificación del documento, con indicación, cuando se adecuado, de los pasajes pertinentes	Nº de las reivindicaciones pertinentes
A	EP 0 745 844 A (CENT NAC INVESTIG SCIENT) 4 Diciembre 1996 (1996-12-04) el documento completo ---	1,19,21, 22,34,37
P,A	ES 2 147 174 A (THE BOARD OF TRUSTEES OF THE LELAND STRANFORD JUNIOR UNIVERSITY) 1 Septiembre 2000 (2000-09-01) el documento completo ---	1-5,19, 22-26, 34,39,43
A	US 5 084 157 A (CLARK STEVEN M ET AL) 28 Enero 1992 (1992-01-28) el documento completo --- -/-	1-5,19, 22-26, 34,39,43

☒ En la continuación del Recuadro C se relacionan documentos adicionales

☒ Véase el Anexo de la familia de patentes.

* Categorías especiales de documentos citados:

"A" documento que define el estado general de la técnica, no considerado como particularmente pertinente

"E" documento anterior, publicado ya sea en la fecha de presentación internacional o con posterioridad a la misma

"L" documento que puede plantear dudas sobre reivindicación(es) de prioridad o que se cita para determinar la fecha de publicación de otra cita o por una razón especial (como la especificada)

"O" documento que se refiere a una divulgación oral, a un empleo, a una exposición o a cualquier otro tipo de medio

"P" documento publicado antes de la fecha de presentación internacional, pero con posterioridad a la fecha de prioridad reivindicada

"T" documento ulterior publicado con posterioridad a la fecha de presentación internacional o de prioridad y que no está en conflicto con la solicitud, pero que se cita para comprender el principio o la teoría que constituye la base de la invención

"X" documento de particular importancia; la invención reivindicada no puede considerarse nueva o no puede considerarse que implique actividad inventiva cuando se considera el documento aisladamente

"Y" documento de especial importancia; no puede considerarse que la invención reivindicada implique actividad inventiva cuando el documento esté combinado con otro u otros documentos, cuya combinación sea evidente para un experto en la materia

"Z" documento que forma parte de la misma familia de patentes

Fecha en la que se ha concluido efectivamente la búsqueda internacional

26 Septiembre 2001

Fecha de expedición del presente informe de búsqueda internacional

23. 10. 2001

Nombre y dirección postal de la Administración encargada de la búsqueda internacional

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Fax: (+31-70) 340-3016

Funcionario autorizado

Antonio Cardenas

C.(continuación) DOCUMENTOS CONSIDERADOS PERTINENTES

Categoría	Identificación de los documentos citados, con indicación, cuando se adecuado, de los pasajes pertinentes	N° de las reivindicaciones pertinentes
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A	US 6 063 250 A (BECKER ROBERT G) 16 Mayo 2000 (2000-05-16) figuras ---	1,22
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Documento de patente citado en el informe de búsqueda	Fecha de publicación	Miembro(s) de la familia de patentes	Fecha de publicación
EP 0745844 A	04-12-1996	EP 0745844 A2	04-12-1996
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Int

I Application No

PCT/JP 01/00003

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